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(54) Title: METALLIC NANOPARTICLES AS ORTHOPEDIC BIOMATERIAL

(57) Abstract: A composition for use as a prosthetic biomaterial and associated method. The biomaterial exhibits cytocompatibility, mechanical functionality and osteoblast adhesion between the implant and interfacing surface. The biomaterial is metallic, has a grain size less than about 500 nanometers and has a surface roughness of less than about 800 nm rms.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61F 2/28

US CL : 623/16.11

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 623/16.11

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6183255 A (OSHIDA et al) 06 February 2001, see entire document.	1-11

☐ Further documents are listed in the continuation of Box C.



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